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November 21, 2001

Mr. Nolan Bennett
Environmental Health Scientist
Bernalillo County Environmental Health Department
600 Second St. NW, Suite 500
Albuquerque, NM 87102

Sent via E-mail: nbennett@bernco.gov and US Mail

RE: Transmittal of 4th Quarterly Ground Water Sampling Results
2615 Isleta SW, The Rodgers Drilling Site; NMED/USTB Facility ID No. 11017001 / 30287
Contract Control No. 980473
FEI Project No. 99-01-1186-05

Dear Nolan:

Please find included the report for the fourth quarter of ground water sampling and analysis for the subject site. Ground water sampling was conducted on October 3 and 4, 2001.

This sampling event provides the sample results with field testing for an abbreviated round of 13 of the 29 ground water monitoring wells in the site vicinity. During this quarter's sampling event, benzene concentrations above the NMWQCC standard of 10 µg/l were found in 4 monitoring wells; W-11, VM-4, VM-5 and VM-7. Toluene concentrations above the standard of 750 µg/l were found in 4 monitoring wells; VM-4, VM-5, VM-7 and FTW-3. Ethylbenzene concentrations above the standard of 750 µg/l were found in 8 monitoring wells; W-11, VM-1, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3. Total xylenes concentrations above the standard of 620 µg/l were found in 9 monitoring wells; W-11, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3. Total naphthalene concentrations (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) above the standard of 30 µg/l were found in 10 monitoring wells; W-2, W-11, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3.

Faith Engineering, Inc. is in the process of completing a Tier I/II evaluation for this site. Please do not hesitate to contact the undersigned if you have any questions or comments regarding this Sampling Report.

Respectfully submitted,

TECUMSEH PROFESSIONAL ASSOCIATES, INC.

William J. Brown, C.S. #077
Senior Hydrogeologist

FAITH ENGINEERING, INC.

Stuart E. Faith, P.E., C.S. #080
President

cc. w/ encls. Mr. Tom Leck – NMED/USTB

FEI FILE NUMBER 99-01-1186-05

FOURTH QUARTERLY SAMPLING REPORT
THE RODGER'S DRILLING SITE
2615 ISLETA BLVD. SW
ALBUQUERQUE, NEW MEXICO
FACILITY #11017001/30287

PREPARED BY:

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NOVEMBER 21, 2001

PREPARED FOR:

THE BERNALILLO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT
AND
THE NEW MEXICO ENVIRONMENT DEPARTMENT
UNDERGROUND STORAGE TANK BUREAU

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FORM 1223
QUARTERLY MONITORING REPORT

Please include the following information:

1. **Site name:** Rodger's Drilling
2. **Responsible party:** Mr. Nolan Bennett
3. **Responsible party mailing address** *(list contact person if different):*

   Bernalillo County Environmental Health Dept.

   600 2nd Street NW, Suite 500

   Albuquerque, NM 87102
4. **Facility number:** 11017001/30287
5. **Address/legal description:** 2615 Isleta Blvd. SW

   Albuquerque, NM
6. **Author/consulting company:** Tecumseh Professional Associates, Inc.
7. **Date of report:** 11/21/2001
8. **Date of confirmation of release or date USTB was notified of the release:**

   1988

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature:_____

Name: William J. Brown

Affiliation: Tecumseh Professional Associates, Inc.

Title: Senior Hydrogeologist

Certified Scientist #: 077

Date:_____

I. INTRODUCTION:

I. A. Scope of Work

Faith Engineering, Inc. (FEI), in collaboration with Tecumseh Professional Associates, Inc. (TPA), has been retained by the Bernalillo County Environmental Health Department to provide professional environmental services at the Rodger's Drilling site, 2615 Isleta SW, Albuquerque, New Mexico (the Site). The location of the Site is shown on Figure 1. This report documents the fourth quarter of ground water sampling conducted at the site on October 3 and 4, 2001. The period covered in this report is from July 2001 to October 2001.

I. B. This quarter's highlights

This sampling event represents the fourth quarter of ground water quality re-examination as outlined in the work plan approval letter dated November 11, 1999, as amended on March 17, 2000 and again on November 17, 2000. The sampling event provides the sample results with field testing for an abbreviated round of 13 of the 29 ground water monitoring wells on site.

II. ACTIVITIES PERFORMED DURING THIS QUARTER:

II. A. Brief description of the remediation system and date installed

Initial investigation activities were conducted at the site by Metric in 1989 and 1990 under contract with Rodgers Drilling Inc. Nineteen drive points and 2 hollow stem auger monitor wells were installed in the site vicinity identifying a large dissolved-phase Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) groundwater plume. In 1991, Metric installed a passive air-inlet soil remediation system at the Site. Five trenches approximately 50 feet in length were excavated to the water table allowing for four-inch diameter PVC slotted screens to be placed horizontally and manifolded to above ground wind turbines. The trenches were back filled with gravel and capped with asphalt. Additionally, 150 cubic yards of soil was reportedly removed from the former UST location.

The Rodgers Site was added to the NMED list of GWPA State Lead remediation projects in 1992. NMED retained Billings and Associates, Inc. (BAI) to evaluate site conditions and implement an enhanced remedial strategy. BAI installed an in-situ SVVS™ remediation system consisting of 2 primary lines of sparge and vent wells. A line of 20 sparge/vent wells are indicated from the BAI site plan as being located along the south side of the Rodgers building. The exact location is unclear and may be located on either side of the Auto Zone/Rodgers property boundary and can only be estimated as all components of this line are buried. An additional 7 sparge/vent wells are located along the north side of the Rodgers property and can be located from evidence in the field. The AS/VE system was operated for approximately 3 years prior to shutdown.

It appears that two source areas are present in the site vicinity; one located in the vicinity of the former USTs on the Rodgers property, and one located north of the site in the vicinity of the former Sparkle Car Wash USTs (see Figure 1). In 1990, approximately 250 yards of hydrocarbon contaminated soil was excavated from the Sparkle UST pit and allowed to aerate on-site. An active horizontal groundwater sparging/passive vadose zone venting system was installed in the excavation pit. This system was operated for approximately 3 months before being turned off.

II. B. Description of activities performed to keep system operating properly

None. The Rodgers SVVS™ remediation system was shut down in 1997.

II. C. Monitoring activities performed

Ground water monitoring and sampling at the Site during this quarter took place on October 3 and 4, 2001. This quarter's sampling included the following:

- *ground water elevation measurements in all wells.*
- *quarterly event ground water sampling of monitor wells W-2, W-3, W-11, W-14, W-23, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2, and FTW-3.*
- *laboratory analysis of ground water samples for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), Methyl-t-Butyl Ether (MTBE), Tri-Methyl Benzenes (TMBs), Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene by EPA Method 8260 PBMS (expanded naphthalenes).*
- *field testing for natural attenuation indicators of ground water samples, including iron, phosphate, sulfide, nitrate, alkalinity, pH, dissolved oxygen, conductivity, and temperature.*

The locations of all monitor wells are shown on Figure 1. Monitoring and sampling procedures are described in Appendix 1. The laboratory results of the ground water analyses for the current monitoring period are shown on Table 1. Historic ground water sampling results are shown on Tables 2a and 2b. Laboratory reports and the Chain of Custody Form are provided in Appendix 3. Table 3 presents cumulative ground water level measurements for the site. Table 4 provides a historical summary of field activities at the site and Appendix 2 contains this quarter's original field notes.

During this quarter's sampling event, benzene concentrations above the NMWQCC standard of 10 µg/l were found in 4 monitoring wells; W-11 (1800 µg/l), VM-4 (5700 µg/l), VM-5 (6700 µg/l) and VM-7 (61 µg/l). Toluene concentrations above the standard of 750 µg/l were found in 4 monitoring wells; VM-4 (1800 µg/l), VM-5 (11000 µg/l), VM-7 (14000 µg/l) and FTW-3 (1400 µg/l). Ethylbenzene concentrations above the standard of 750 µg/l were found in 8 monitoring wells; W-11 (1500 µg/l), VM-1 (1900 µg/l), VM-

4 (1300 µg/l), VM-5 (1500 µg/l), VM-7 (2400 µg/l), FTW-1 (780 µg/l), FTW-2 (1100 µg/l) and FTW-3 (1100 µg/l). Total xylenes concentrations above the standard of 620 µg/l were found in 9 monitoring wells; W-11 (854.1 µg/l), VM-1 (2690 µg/l), VM-2 (740 µg/l), VM-4 (2500 µg/l), VM-5 (6500 µg/l), VM-7 (10100 µg/l), FTW-1 (3800 µg/l), FTW-2 (3600 µg/l) and FTW-3 (3200 µg/l). Total naphthalenes concentrations (including naphthalene, 1-methylnaphthalene and 2-methylnaphthalene) above the standard of 30 µg/l were found in 10 monitoring wells; W-2, W-11, VM-1, VM-2, VM-4, VM-5, VM-7, FTW-1, FTW-2 and FTW-3. These concentrations ranged from 284 µg/l in FTW-1 to 860 µg/l in VM-1. A total BTEX summary and dissolved-phase benzene contour map for the fourth quarter ground water analysis are shown on Figure 1.

Depth to ground water during this quarter's sampling event varied from 6.48 feet below ground surface (bgs) in well W-6 to 8.76 feet bgs in well W-14. All ground water elevation data including the historical data is summarized in Table 3. This quarter's measurements of on-site ground water elevations indicate a variable ground water flow direction to the northwest, west and south at a gradient of approximately 0.001 feet/foot. A water elevation summary and directional flow map for the fourth quarter ground water measurements are shown on Figure 2.

II. D. System performance and effectiveness

Not Applicable, See II. A. and B.

II. E. Statement verifying containment of release

Based on ground water sample results from site perimeter monitoring wells and the recently completed Hydrogeologic Investigation, high levels of dissolved phase hydrocarbons are present in the ground water which extend off-site to the north onto the Sparkle Car Wash property and south onto the Auto Zone property. Please refer to Figure 1. Long-term monitoring by the responsible party indicates that the Sparkle Car Wash plume is relatively restricted in size, is partially remediated, and has not co-mingled with the Rodgers Site plume. There is no evidence to suggest additional off-site, up-gradient sources of contamination for the BTEX concentration levels. Sporadic long-term monitoring of Rodgers ground water wells suggest the dissolved-phase plume is in the state of hydrodynamic equilibrium.

III. SUMMARY AND CONCLUSIONS:

III. A. Discussion of trends or changes noted in analytical results or site conditions

Laboratory results obtained during this fourth quarter sampling event and the Hydrogeologic Investigation indicate that BTEX concentrations in the ground water have migrated from the site's former UST location off-site, north to the Sparkle Car Wash property and south to the Auto Zone property. BTEX concentrations are above the NMWQCC standards in monitoring wells on these properties. Naphthalenes

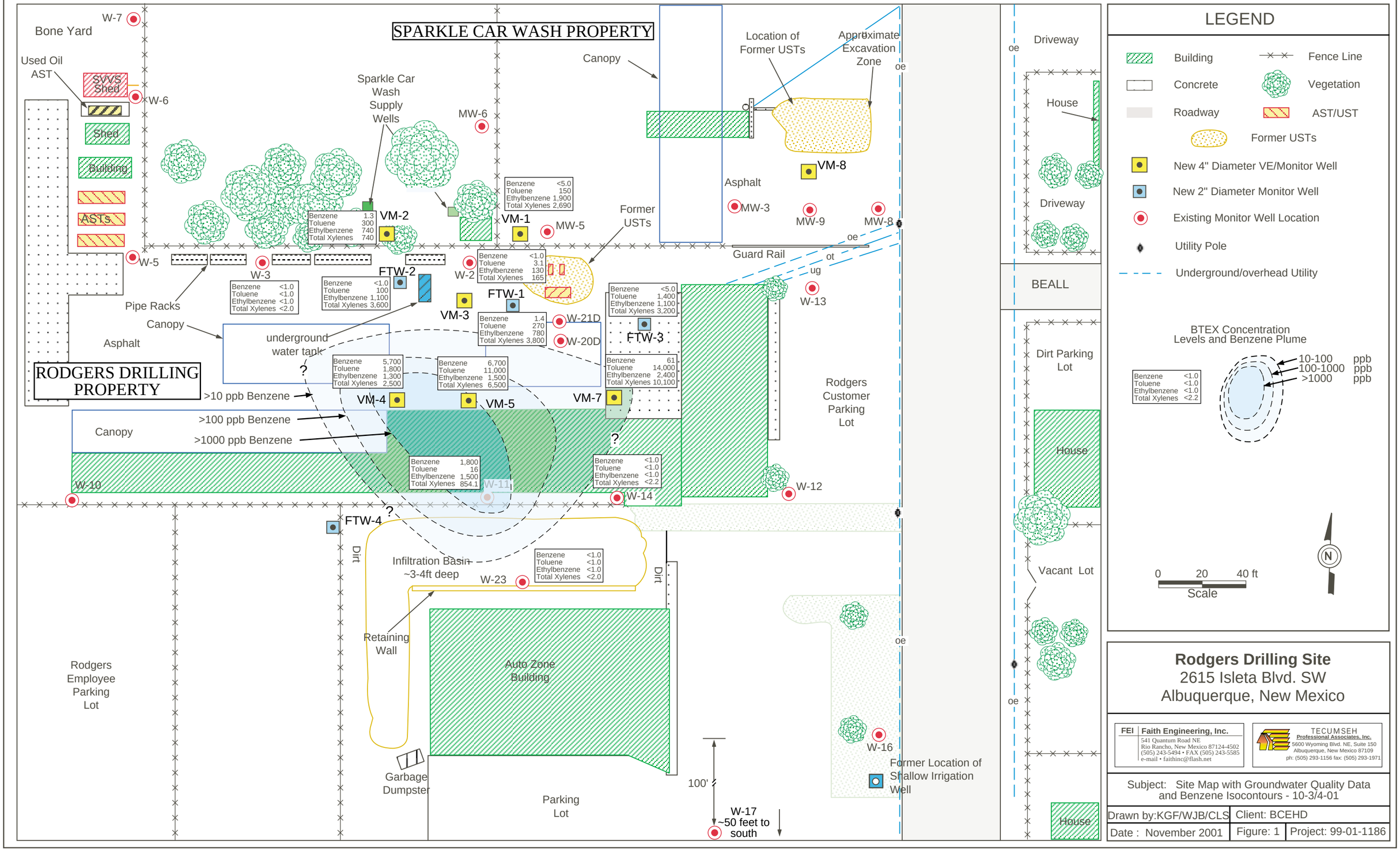
concentrations are also above the NMWQCC standard of 30 µg/l in monitoring wells W-2, W-11, VM-1 and VM-2 at the site's north and south property boundary. Concentrations of organics have increased in wells VM-1, VM-5, VM-7, FTW-1, FTW-2, and FTW-3 since the prior sampling event; concentrations have decreased in wells W-2, W-11, VM-2, and VM-4. Further sampling events are needed to establish long-term trends of contaminant migration at the site. The laboratory results of the ground water shown on Table 1 indicate that the contaminant plume may be characterized as an older and weathered petroleum release. Previously collected soil data indicate both gasoline and diesel hydrocarbons are present at the Site.

III. B. Ongoing assessment of the remediation system

Not Applicable, See II. A. and B.

III. C. Recommendations

FEI is currently conducting a Tier I/II Risk Based Decision Making (RBDM) evaluation to determine future actions. Following completion of the Tier I/II RBDM evaluations, FEI/TPA will provide recommendations for the Site.



LEGEND

- Building
- Concrete
- Roadway
- Fence Line
- Vegetation
- AST/UST
- Former USTs
- New 4" Diameter VE/Monitor Well
- New 2" Diameter Monitor Well
- Existing Monitor Well Location
- Utility Pole
- Underground/overhead Utility

BTEX Concentration Levels and Benzene Plume

Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<2.2

10-100 ppb
100-1000 ppb
>1000 ppb

0 20 40 ft
Scale

N

Rodgers Drilling Site
2615 Isleta Blvd. SW
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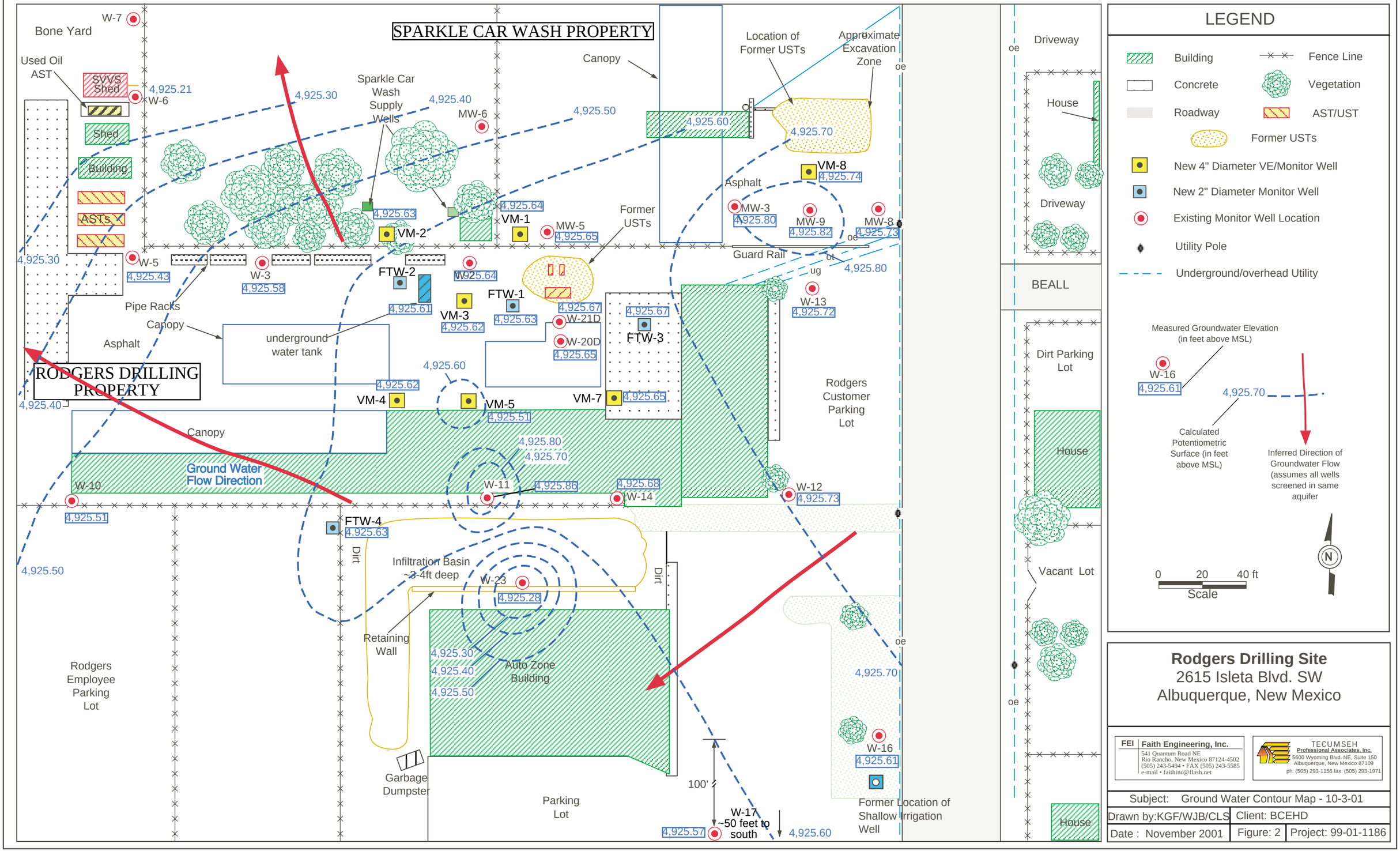
Subject: Site Map with Groundwater Quality Data and Benzene Isocontours - 10-3/4-01

Drawn by:KGF/WJB/CLS	Client: BCEHD	
Date : November 2001	Figure: 1	Project: 99-01-1186



Rodgers Drilling Site
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Subject: Ground Water Contour Map - 10-3-01		
Drawn by:KGF/WJB/CLS	Client: BCEHD	
Date : November 2001	Figure: 2	Project: 99-01-1186

TABLE 1
Rodger's • 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
CURRENT GROUND WATER ANALYSIS RESULTS

		ORGANICS											INORGANICS						INDICATORS		
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**	**IRON**	**PHOSPHATE**	**SULFIDE**	**ALKALINITY as CaCO.**	**DISS O2**	**NITRATE**	**pH**	**CONDUCTIVITY**	**TEMP**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	˚C
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**			**1.0**					**10.0**			
W-2	10/04/01	< 1.0	3.1	130	165	18	< 1.0	< 1.0	1250	**73**	**140**	**85**	**>10**	3.5	< 1.0	225	0.01	1.0	8.37	1651	23.4
W-3	10/04/01	< 1.0	< 1.0	< 1.0	< 2.0	24	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0	**4.0**	2.5	< 1.0	275	0.01	2.3	8.21	2004	23.3
W-11	10/03/01	**1800**	16	**1500**	**854.1**	< 1.0	< 1.0	< 1.0	251	**310**	**92**	**120**	**3.0**	4.0	< 1.0	175	0.02	2.3	7.90	1861	23.2
W-14	10/03/01	< 1.0	< 1.0	< 1.0	<2.2	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0	**2.0**	1.5	< 1.0	200	0.02	1.0	7.98	2470	25.5
W-23	10/04/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0	**2.0**	2.0	< 1.0	250	0.01	1.0	8.03	1685	22.4
VM-1	10/04/01	< 5.0	150	**1900**	**2690**	< 5.0	< 5.0	< 5.0	1830	**600**	**150**	**110**	**1.0**	1.0	1.0	300	0.02	1.0	8.21	2073	22.9
VM-2	10/03/01	1.3	300	740	**740**	13	< 1.0	< 1.0	842	**150**	**170**	**71**	**1.0**	3.0	< 1.0	275	0.03	1.0	8.41	2238	22.3
VM-4	10/04/01	**5700**	**1800**	**1300**	**2500**	< 10	< 10	< 10	649	**230**	**< 50**	**< 50**	**5.5**	3.0	< 1.0	300	0.01	< 1.0	7.81	1861	23.8
VM-5	10/04/01	**6700**	**11000**	**1500**	**6500**	< 5.0	< 5.0	< 5.0	1550	**300**	**< 25**	**79**	**2.0**	2.0	0.5	225	0.01	< 1.0	7.99	1878	23.6
VM-7	10/04/01	**61**	**14000**	**2400**	**10100**	< 5.0	< 5.0	< 5.0	2010	**540**	**57**	**140**	**1.5**	2.0	< 1.0	250	0.01	< 1.0	8.02	1988	24.2
FTW-1	10/04/01	1.4	270	**780**	**3800**	4.2	< 1.0	< 1.0	790	**180**	**39**	**65**	**2.5**	1.0	< 1.0	350	0.01	1.0	8.08	2095	24.4
FTW-2	10/04/01	< 1.0	100	**1100**	**3600**	4	< 1.0	< 1.0	1170	**330**	**110**	**150**	**1.5**	2.0	< 1.0	250	0.01	< 1.0	8.16	1819	23.7
FTW-3	10/04/01	< 5.0	**1400**	**1100**	**3200**	< 5.0	< 5.0	< 5.0	1350	**230**	**36**	**85**	**1.0**	1.5	< 1.0	250	0.01	1.0	8.18	2427	23.8
TRIP BLANK	10/03-04/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0									

Data checked _____ / _____

TPA
11/21/01

TABLE 2a
Rodger's 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/ORGANICS

		ORGANICS										
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**		
MW - 3	09/25/00	< 1.0	< 1.0	< 1.0	< 2.0	7.2	< 1.0	< 1.0	< 2.0	< 1.0	*	*
MW - 5	09/25/00	< 1.0	< 1.0	1.0	< 2.0	20	< 1.0	< 1.0	<4.4	< 1.0	*	*
MW - 8	09/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 2	09/25/00	< 5.0	< 5.0	240	423	30	< 5.0	< 5.0	1640	**130**	*	*
	05/21/01	< 1.0	1.1	110	107	< 1.0	< 1.0	< 1.0	897	**52**	**110**	**51**
	07/02/01	< 5.0	< 5.0	140	174	5.8	< 5.0	< 5.0	1460	**76**	**140**	**100**
	10/04/01	< 1.0	3.1	130	165	18	< 1.0	< 1.0	1250	**73**	**140**	**85**
W - 3	09/25/00	< 1.0	< 1.0	2.5	4.5	29	< 1.0	< 1.0	< 2.0	< 1.0	*	*
	05/18/01	< 1.0	< 1.0	< 1.0	<2.0	26	< 1.0	< 1.0	<2.0	<1.0	< 5.0	< 5.0
	07/02/01	< 1.0	< 1.0	< 1.0	< 2.0	31	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0
	10/04/01	< 1.0	< 1.0	< 1.0	< 2.0	24	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0
W - 5	09/25/00	< 1.0	< 1.0	< 1.0	< 2.0	4.3	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 6	09/25/00	< 1.0	< 1.0	< 1.0	< 2.0	10	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 10	09/25/00	< 1.0	< 1.0	< 1.0	< 2.0	1.7	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 11	09/25/00	**2300**	< 20	**1400**	**<1020**	< 20	< 20	**< 20**	< 340	**390**	*	*
	05/21/01	**6100**	47	**760**	360	< 25	< 25	< 25	64	**110**	**<130**	**<130**
	07/02/01	**5700**	< 50	**2000**	**1700**	< 50	< 50	< 50	390	**430**	**< 250**	**< 250**
	10/03/01	**1800**	16	**1500**	**854.1**	< 1.0	< 1.0	< 1.0	251	**310**	**92**	**120**
W - 12	09/26/00	< 1.0	< 1.0	1.0	< 2.0	< 1.0	< 1.0	< 1.0	19.4	1.8	*	*
W - 13	09/25/00	< 1.0	< 1.0	< 1.0	< 2.0	1.3	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 14	09/25/00	3.2	< 1.0	41	4.9	1.7	< 1.0	< 1.0	<5.4	2.9	*	*
	05/21/01	**38**	1.6	21	16.8	< 1.0	< 1.0	< 1.0	34.4	4.3	< 5.0	< 5.0
	07/02/01	3.8	< 1.0	7.0	4.5	< 1.0	< 1.0	< 1.0	4.0	1.1	< 5.0	< 5.0
	10/03/01	< 1.0	< 1.0	< 1.0	< 2.2	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0

FEI/TPA
11/21/01

TABLE 2a
Rodger's 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/ORGANICS

		ORGANICS										
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**		
W - 16	09/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 17	09/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 20D	09/26/00	< 1.0	< 1.0	< 1.0	< 2.0	5.4	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 21D	09/26/00	< 1.0	< 1.0	< 1.0	< 2.0	6.1	< 1.0	< 1.0	< 2.0	< 1.0	*	*
W - 23	09/26/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*
	01/16/01	ND	ND	ND	ND	ND	ND	ND	ND	ND	*	*
	05/21/01	**53**	< 1.0	2.3	<2.0	< 1.0	< 1.0	< 1.0	<2.0	1.7	< 5.0	< 5.0
	07/02/01	< 1.0	< 1.0	< 1.0	< 2.0	2.0	< 1.0	< 1.0	< 2.0	< 1.0	< 5.0	< 5.0
	10/04/01	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	< 5.0	< 5.0
MW - 9	09/25/00	< 1.0	< 1.0	120	40	4.0	0.0	600	10.0	0.2	*	*
VM - 1	01/16/01	ND	**760**	**1500**	**3300**	ND	ND	ND	1790	**840**	*	*
	05/21/01	< 10	120	**1400**	**1850**	< 10	< 10	< 10	1271	**270**	**140**	**110**
	07/02/01	< 10	120	**1400**	**1800**	< 10	< 10	< 10	1591	**390**	**180**	**92**
	10/04/01	< 5.0	150	**1900**	**2690**	< 5.0	< 5.0	< 5.0	1830	**600**	**150**	**110**
VM - 2	01/16/01	ND	190	**1300**	**2000**	ND	ND	ND	1700	**310**	*	*
	05/21/01	< 10	510	**1000**	**1310**	< 10	< 10	< 10	1330	**180**	**100**	**110**
	07/02/01	< 10	320	720	**760**	11	< 10	< 10	958	**150**	**140**	**91**
	10/03/01	1.3	300	740	**740**	13	< 1.0	< 1.0	842	**150**	**170**	**71**
VM - 3	01/16/01	ND	**2800**	**1100**	**4400**	ND	ND	ND	1240	**210**	*	*
VM - 4	01/16/01	**6600**	**4100**	**2300**	**6600**	ND	ND	ND	2020	**360**	*	*
	05/21/01	**7200**	**1600**	**2200**	**3940**	< 5.0	< 5.0	< 5.0	1260	**410**	**120**	**150**
	07/02/01	**6600**	**2800**	**2600**	**5300**	< 50	< 50	< 50	1680	**450**	**59****	**82****
	10/04/01	**5700**	**1800**	**1300**	**2500**	< 10	< 10	< 10	649	**230**	**< 50**	**< 50**

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TABLE 2a
Rodger's 2615 Isleta
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/ORGANICS

		ORGANICS										
LOCATION	**DATE SAMPLED**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**MTBE**	**EDB**	**EDC**	**TMB**	**NAPHTHALENE**	**1-METHYL NAPHTHALENE**	**2-METHYL NAPHTHALENE**
UNITS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l	µg/l
STANDARDS		**10**	**750**	**750**	**620**	**100**	**0.1**	**10**		**30**		
VM - 5	01/16/01	**8700**	**13000**	**1500**	**8500**	ND	ND	ND	1610	**270**	*	*
	05/21/01	**7700**	**14000**	**1600**	**6200**	< 10	< 10	< 10	1520	**320**	**170**	**170**
	07/02/01	**4800**	**9500**	**1300**	**5400**	< 50	< 50	< 50	1360	**230**	**25****	**42****
	10/04/01	**6700**	**11000**	**1500**	**6500**	< 5.0	< 5.0	< 5.0	1550	**300**	**< 25**	**79**
VM - 7	01/16/01	**260**	**9600**	**2000**	**8500**	ND	ND	ND	1960	**380**	*	*
	05/18/01	**160**	**10000**	**2000**	**8200**	< 50	< 50	< 50	1890	**610**	**720**	**610**
	07/02/01	< 100	**6900**	**1600**	**5900**	< 100	< 100	< 100	1350	**340**	**< 500**	**< 500**
	10/04/01	61	**14000**	**2400**	**10100**	< 5.0	< 5.0	< 5.0	2010	**540**	**57**	**140**
FTW - 1	01/16/01	ND	440	**900**	**5600**	ND	ND	ND	1770	**280**	*	*
	05/21/01	< 20	200	560	**2680**	< 20	< 20	< 20	830	**170**	**140**	**160**
	07/02/01	< 10	120	350	**1640**	< 10	< 10	< 10	337	**77**	**< 50**	**< 50**
	10/04/01	1.4	270	**780**	**3800**	4.2	< 1.0	< 1.0	790	**180**	**39**	**65**
FTW - 2	01/16/01	ND	**1100**	**1200**	**3100**	ND	ND	ND	1350	**300**	*	*
	05/18/01	< 5.0	230	720	**2030**	< 5.0	< 5.0	< 5.0	840	**150**	**68**	**69**
	07/02/01	< 5.0	120	**810**	**2020**	10	< 5.0	< 5.0	890	**170**	**51**	**50**
	10/04/01	< 1.0	100	**1100**	**3600**	4	< 1.0	< 1.0	1170	**330**	**110**	**150**
FTW - 3	01/16/01	ND	**2600**	**1100**	**4000**	ND	ND	ND	1390	**260**	*	*
	05/18/01	< 20	**2300**	**1300**	**4700**	< 20	< 20	< 20	3160	**380**	**210**	**310**
	07/02/01	< 20	**880**	510	**1680**	< 20	< 20	< 20	800	**120**	**< 100**	**< 100**
	10/04/01	< 5.0	**1400**	**1100**	**3200**	< 5.0	< 5.0	< 5.0	1350	**230**	**36**	**85**
FTW - 4	01/16/01	ND	ND	ND	ND	20	ND	ND	ND	ND	*	*

* - Not Sampled or Tested

** - Results Using EPA Method 8270 SIMS

Data checked _____ / _____

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TABLE 2b
Rodger's • 2615 Isleta SW
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/INORGANICS

		INORGANICS							INDICATORS		
LOCATION	**DATE SAMPLED**	**IRON**		**PHOSPHATE**	**SULFIDE**	**ALKALINITY as CaCO.**	**DISS O2**	**NITRATE**	**pH**	**CONDUCTIVITY**	**TEMP**
UNITS		**mg/l**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**		**µmhos/cm**	**˚C**
STANDARDS		**SOLUBLE**	**TOTAL-1.0**					**10**			
MW - 3	09/25/00	50	**50**	0.0	1.0	550	5.0	0.4	7.39	2887	24.6
MW - 5	09/25/00	0.3	0.3	1.5	0.2	250	0.5	1.0	7.23	2562	24.1
MW - 8	09/26/00	*	0.1	1.5	0.0	350	0.5	0.3	6.95	3065	24.8
W - 2	09/25/00	20	**40**	3.0	2.0	*	*	0.3	7.47	2441	23.2
	05/21/01	*	**40**	4.0	0.2	500	5.0	0.1	7.27	1368	29.0
	07/02/01	*	**40**	4.0	0.0	600	10.0	0.2	7.38	1751	23.3
	10/04/01	*	**>10**	3.5	< 1.0	225	0.01	1.0	8.37	1651	23.4
W - 3	09/25/00	4.0	**32**	5.0	0.2	400	4.0	0.1	7.07	2358	21.7
	05/18/01	*	**20**	5.0	6.0	350	3.0	0.4	6.93	2666	19.3
	07/02/01	*	**3.0**	4.0	0.0	250	2.0	0.6	6.98	2528	21.7
	10/04/01	*	**4.0**	2.5	< 1.0	275	0.01	2.3	8.21	2004	23.3
W - 5	09/25/00	0.0	0.1	1.5	0.0	250	0.5	1.0	6.87	2268	22.2
W - 6	09/25/00	0.1	0.1	3.0	0.0	300	0.5	0.6	6.92	2538	21.6
W - 10	09/25/00	0.1	0.2	1.0	0.0	300	1.0	0.8	7.05	2095	19.6
W - 11	09/25/00	1.0	**2.0**	1.5	0.3	500	1.5	1.0	7.12	2113	21.6
	05/21/01	*	**2.0**	2.0	0.0	500	3.0	0.6	7.08	1838	20.5
	07/02/01	*	**1.5**	5.0	0.0	500	5.0	0.6	7.03	1955	21.3
	10/03/01	*	**3.0**	4.0	< 1.0	175	0.02	2.3	7.90	1861	23.2
W - 12	09/26/00	*	0.3	1.0	0.1	200	2.0	1.5	7.24	2716	23.3
W - 13	09/25/00	1.0	**1.0**	0.3	0.0	350	1.0	1.0	7.11	2844	26.4
W - 14	09/25/00	4.0	**5.0**	2.0	0.1	500	2.0	1.0	7.11	2495	21.8
	05/21/01	*	**5.0**	0.0	0.0	500	4.0	0.3	7.00	2271	22.2
	07/02/01	*	**2.0**	2.0	0.0	500	4.0	1.0	6.98	2523	21.6
	10/03/01	*	**2.0**	1.5	< 1.0	200	0.02	1.0	7.98	2470	25.5
W - 16	09/26/00	*	*	*	*	*	*	*	*	*	*
W - 17	09/26/00	*	*	*	*	*	*	*	*	*	*
W - 20D	09/26/00	1.0	**1.0**	0.3	0.4	350	1.0	1.0	7.22	2746	18.7
W - 21D	09/26/00	1.5	**1.5**	3.0	0.0	250	1.5	0.6	6.96	2903	19.1
W - 23	09/26/00	*	**2.0**	7.0	0.0	275	1.0	0.3	6.87	2397	23.0
	01/16/01	*	*	*	*	*	0.80	*	7.98	40.8	10.3
	05/21/01	*	**3.0**	2.0	0.0	350	2.0	0.6	6.91	1708	20.4
	07/02/01	*	**2.0**	2.0	0.0	500	1.0	0.8	6.93	2330	23.6
	10/04/01	*	**2.0**	2.0	< 1.0	250	0.01	1.0	8.03	1685	22.4
MW - 9	09/25/00	*	**1.0**	2.5	0.0	225	1.0	0.6	7.04	2660	26.4

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TABLE 2b
Rodger's • 2615 Isleta SW
99-01-1186-05 • NMED FACILITY #30287
HISTORICAL GROUND WATER ANALYSIS RESULTS/INORGANICS

		INORGANICS							INDICATORS		
LOCATION	**DATE SAMPLED**	**IRON**		**PHOSPHATE**	**SULFIDE**	**ALKALINITY as CaCO.**	**DISS O2**	**NITRATE**	**pH**	**CONDUCTIVITY**	**TEMP**
UNITS		**mg/l**		**mg/l**	**mg/l**	**mg/l**	**mg/l**	**mg/l**		**µmhos/cm**	**˚C**
STANDARDS		**SOLUBLE**	**TOTAL-1.0**					**10**			
VM - 1	01/16/01	< 0.02	**7.56**	< 0.5	250	930	0.83	< 0.5	8.07	125.4	13.1
	05/21/01	*	**8.0**	0.4	2.0	500	6.0	0.4	7.22	1066	20.8
	07/02/01	*	0.8	0.6	0.0	400	2.0	1.0	7.23	2098	23.7
	10/04/01	*	**1.0**	1.0	1.0	300	0.02	1.0	8.21	2073	22.9
VM - 2	01/16/01	< 0.02	**3.30**	< 0.5	280	820	0.74	< 0.5	7.81	100.8	14.0
	05/21/01	*	0.2	1.0	2.0	400	2.0	0.2	7.43	2324	20.9
	07/02/01	*	0.3	7.0	1.0	600	0.5	1.5	7.38	2269	22.1
	10/03/01	*	**1.0**	3.0	< 1.0	275	0.03	1.0	8.41	2238	22.3
VM - 3	01/16/01	0.07	**14.3**	< 0.5	400	710	0.43	< 0.5	7.63	231.0	15.5
VM - 4	01/16/01	0.15	**11.7**	< 0.5	1.1	990	0.63	< 0.5	7.29	166.2	13.6
	05/21/01	*	**10**	5.0	7.0	500	2.0	0.4	6.68	2080	21.4
	07/02/01	*	**14**	5.0	0.0	500	1.0	0.0	6.82	2076	23.4
	10/04/01	*	**5.5**	3.0	< 1.0	300	0.01	< 1.0	7.81	1861	23.8
VM - 5	01/16/01	0.05	**7.98**	< 0.5	240	780	0.82	< 0.5	7.45	203.0	14.1
	05/21/01	*	**3.0**	3.0	1.0	600	2.0	0.2	6.90	2039	20.4
	07/02/01	*	**2.0**	0.2	0.0	500	3.0	1.0	7.11	2048	23.7
	10/04/01	*	**2.0**	2.0	0.5	225	0.01	< 1.0	7.99	1878	23.6
VM - 7	01/16/01	0.03	**2.19**	< 0.5	52	880	1.20	< 0.1	7.60	194.0	13.2
	05/18/01	*	**1.5**	0.2	0.3	550	4.0	1.0	6.94	2120	21.2
	07/02/01	*	**1.5**	4.0	0.2	500	3.0	1.5	7.00	2330	24.1
	10/04/01	*	**1.5**	2.0	< 1.0	250	0.01	< 1.0	8.02	1988	24.2
FTW - 1	01/16/01	< 0.02	**9.74**	< 0.5	540	530	0.46	< 0.1	7.56	231.0	16.1
	05/21/01	*	**2.0**	2.0	0.0	350	2.0	0.4	7.03	2151	20.0
	07/02/01	*	**1.0**	2.0	0.0	350	1.0	1.0	6.96	2345	22.9
	10/04/01	*	**2.5**	1.0	< 1.0	350	0.01	1.0	8.08	2095	24.4
FTW - 2	01/16/01	< 0.02	**8.80**	< 0.5	390	470	0.51	< 0.5	7.58	89.7	15.5
	05/18/01	*	0.6	0.2	0.0	350	3.0	1.5	6.95	972	21.4
	07/02/01	*	0.4	0.6	0.0	500	4.0	1.5	7.02	1939	22.2
	10/04/01	*	**1.5**	2.0	< 1.0	250	0.01	< 1.0	8.16	1819	23.7
FTW - 3	01/16/01	< 0.02	**2.97**	< 0.5	740	600	0.49	< 0.1	7.51	254.0	16.4
	05/18/01	*	**3.0**	2.0	2.0	350	1.0	0.8	7.14	2241	21.8
	07/02/01	*	0.3	0.3	0.8	300	1.0	1.0	7.05	2594	23.6
	10/04/01	*	**1.0**	1.5	< 1.0	250	0.01	1.0	8.18	2427	23.8
FTW - 4	01/16/01	< 0.02	**3.42**	< 0.5	570	560	0.69	< 0.1	7.49	231.0	15.5

* - Not Sampled or Tested

Data checked _____ / _____

TABLE 3
99-01-1186-01 • Rodger's 2615 Isleta Blvd
NMED FACILITY #30287
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
MW-3	4934.51	9/25/00	8.63	4925.88	
		5/18/01	8.46	4926.05	0.17
		7/2/01	8.84	4925.67	-0.38
		10/3/01	8.71	4925.80	0.13
MW-5	4933.36	9/25/00	7.68	4925.68	
		5/18/01	7.48	4925.88	0.20
		7/2/01	7.48	4925.88	0.00
		10/3/01	7.71	4925.65	-0.23
MW-8	4933.43	9/26/00	7.64	4925.79	
		5/18/01	7.46	4925.97	0.18
		7/2/01	7.83	4925.60	-0.37
		10/3/01	7.70	4925.73	0.13
MW-9	4934.10	9/25/00	8.22	4925.88	
		5/18/01	8.03	4926.07	0.19
		7/2/01	8.42	4925.68	-0.39
		10/3/01	8.28	4925.82	0.14
W-2	4933.56	9/25/00	7.88	4925.68	
		5/18/01	7.67	4925.89	0.21
		7/2/01	8.06	4925.50	-0.39
		10/3/01	7.92	4925.64	0.14
W-3	4932.68	9/25/00	7.07	4925.61	
		5/18/01	6.85	4925.83	0.22
		7/2/01	7.24	4925.44	-0.39
		10/3/01	7.10	4925.58	0.14
W-5	4932.28	9/25/00	6.69	4925.59	
		5/18/01	6.48	4925.80	0.21
		7/2/01	6.86	4925.42	-0.38
		10/3/01	6.85	4925.43	0.01
W-6	4931.69	9/25/00	6.46	4925.23	
		5/18/01	6.24	4925.45	0.22
		7/2/01	6.62	4925.07	-0.38
		10/3/01	6.48	4925.21	0.14
W-10	4932.64	9/25/00	7.11	4925.53	
		5/18/01	6.92	4925.72	0.19
		7/2/01	7.49	4925.15	-0.57
		10/3/01	7.13	4925.51	0.36
W-11	4933.68	9/25/00	7.98	4925.70	
		5/18/01	7.78	4925.90	0.20
		7/2/01	8.15	4925.53	-0.37
		10/3/01	7.82	4925.86	0.33

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TABLE 3
99-01-1186-01 • Rodger's 2615 Isleta Blvd
NMED FACILITY #30287
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
W-12	4934.13	9/26/00	8.34	4925.79	
		5/18/01	8.17	4925.96	0.17
		7/2/01	8.54	4925.59	-0.37
		10/3/01	8.40	4925.73	0.14
W-13	4933.68	9/25/00	7.93	4925.75	
		5/18/01	7.73	4925.95	0.20
		7/2/01	8.10	4925.58	-0.37
		10/3/01	7.96	4925.72	0.14
W-14	4934.44	9/25/00	8.72	4925.72	
		5/18/01	8.53	4925.91	0.19
		7/2/01	8.89	4925.55	-0.36
		10/3/01	8.76	4925.68	0.13
W-16	4933.13	9/26/00	11.06	4922.07	
		5/18/01	7.28	4925.85	3.78
		7/2/01	7.63	4925.50	-0.35
		10/3/01	7.52	4925.61	0.11
W-17	4932.28	9/26/00	6.63	4927.50	
		5/18/01	6.46	4927.67	0.17
		7/2/01	6.81	4927.32	-0.35
		10/3/01	6.71	4925.57	0.10
W-20D	4934.15	9/26/00	8.43	4925.25	
		5/18/01	8.27	4925.41	0.16
		7/2/01	8.64	4925.04	-0.37
		10/3/01	8.50	4925.65	0.14
W-21D	4934.19	9/26/00	8.43	4926.01	
		5/18/01	8.29	4926.15	0.14
		7/2/01	8.68	4925.76	-0.39
		10/3/01	8.52	4925.67	0.16
W-23	4931.84	9/26/00	6.51	4926.62	
		5/18/01	6.24	4926.89	0.27
		7/2/01	6.70	4926.43	-0.46
		10/3/01	6.56	4925.28	0.14
VM-1	4933.00	1/16/01	7.00	4925.28	
		5/18/01	7.17	4925.11	-0.17
		7/2/01	7.52	4924.76	-0.35
		10/3/01	7.36	4925.64	0.16
VM-2	4932.84	1/16/01	7.12	4927.03	
		5/18/01	6.96	4927.19	0.16
		7/2/01	7.34	4926.81	-0.38
		10/3/01	7.21	4925.63	0.13

TABLE 3
99-01-1186-01 • Rodger's 2615 Isleta Blvd
NMED FACILITY #30287
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
VM-3	4933.23	1/16/01	7.38	4926.81	
		5/18/01	7.38	4926.81	0.00
		7/2/01	7.75	4926.44	-0.37
		10/3/01	7.61	4925.62	0.14
VM-4	4933.30	1/16/01	7.45	4924.39	
		5/18/01	7.45	4924.39	0.00
		7/2/01	7.83	4924.01	-0.38
		10/3/01	7.68	4925.62	0.15
VM-5	4933.28	1/16/01	7.56	4925.44	
		5/18/01	7.55	4925.45	0.01
		7/2/01	7.91	4925.09	-0.36
		10/3/01	7.77	4925.51	0.14
VM-7	4934.09	1/16/01	9.23	4923.61	
		5/18/01	8.23	4924.61	1.00
		7/2/01	8.58	4924.26	-0.35
		10/3/01	8.44	4925.65	0.14
VM-8	4933.74	5/18/01	7.77	4925.07	
		7/2/01	8.14	4925.60	-0.28
		10/3/01	8.00	4925.74	0.14
FTW-1	4933.59	1/16/01	7.74	4925.49	
		5/18/01	7.78	4925.45	-0.04
		7/2/01	8.10	4925.13	-0.32
		10/3/01	7.96	4925.63	0.14
FTW-2	4932.94	1/16/01	7.10	4926.20	
		5/18/01	7.09	4926.21	0.01
		7/2/01	7.47	4925.83	-0.38
		10/3/01	7.33	4925.61	0.14
FTW-3	4934.10	1/16/01	8.21	4925.07	
		5/18/01	8.21	4925.07	0.00
		7/2/01	8.56	4924.72	-0.35
		10/3/01	8.43	4925.67	0.13
FTW-4	4932.79	1/16/01	6.93	4927.16	
		5/18/01	6.94	4927.15	-0.01
		7/2/01	7.30	4926.79	-0.36
		10/3/01	7.16	4925.63	0.14

Data checked _____ / _____

FEI/TPA
11/21/01

TABLE 4
99-01-1186-05 • Rodger's 2615 Isleta Blvd. SW
NMED FACILITY #30287
Summary of Tasks Performed in the Field

DATE	FIELD TECH.	DESCRIPTION
9/21/00	KGF, MB	Initial sampling round(1st Qtr)-all existing wells, site survey.
10/12/00-10/13/00	BB, TC	Drilling on site, soil samples taken.
11/28/00	BB, TC	Drilling on site, soil samples taken.
1/16/01	TC, SG	Collect GW samples, new wells
2/21/01	BB, TC	Drilling on site, soil samples taken.
5/18/01 & 5/21/01	KL, MB	2nd Quarterly sampling round, 13 selected wells.
7/2/01	KL, MB	3rd Quarterly sampling round, 13 selected wells, EPA Method 8270 on two wells.
10/3-4/01	PJB	4th Quarterly sampling round, 13 selected wells.

Data checked _____ / _____

APPENDIX 1

Sampling Protocol

Prior to any sampling, the water level in each monitoring well was measured. Ground water elevations (from datum) were determined using survey data collected during the Hydrogeologic Investigation. Temperature, pH and conductivity measurements were taken during well purging to document well stabilization. At least three (3) well bore volumes were removed from each well prior to collection of ground water samples using dedicated disposable bailers. Samples were collected using strict chain-of-custody procedures, stored on ice in a cooler, and hand-delivered to Pinnacle Laboratories, in Albuquerque, New Mexico, for analyses. The ground water samples were analyzed for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Methyl-t-Butyl Ether (MTBE), Tri-Methyl Benzenes (TMBs), Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), Naphthalene, 1-Methylnaphthalene and 2-Methylnaphthalene by EPA Method 8260 PBMS (expanded naphthalenes). Natural attenuation indicator parameters iron, phosphate, nitrate, sulfide, alkalinity, pH, dissolved oxygen, conductivity and temperature were analyzed and measured in the field using the appropriate field test kits and equipment.

APPENDIX 2

Field Notes

APPENDIX 3

Analytical Laboratory Reports